

Collaborative Innovation Days

2nd Workshop on Infrastructure Cloud – Operation and Services

workshop 09/06

2017



TransAID *Transition Areas for Infrastructure-Assisted Driving*

Project description, targets & partners

TransAID investigates (since 09/2017) the impact of new vehicle automation systems, focussing on situations where these systems are NOT working. For instance, due to system limitations, missing road markings, sensor malfunctions, complex intersections, construction sites, ...

TransAID's objectives are:

- Perform simulations of different vehicle automations in different market penetrations.
- Develop new traffic management measures.
- Create new V2X message sets.
- Test prototypes and scenarios on real roads.
- Provide guidelines and a roadmap.

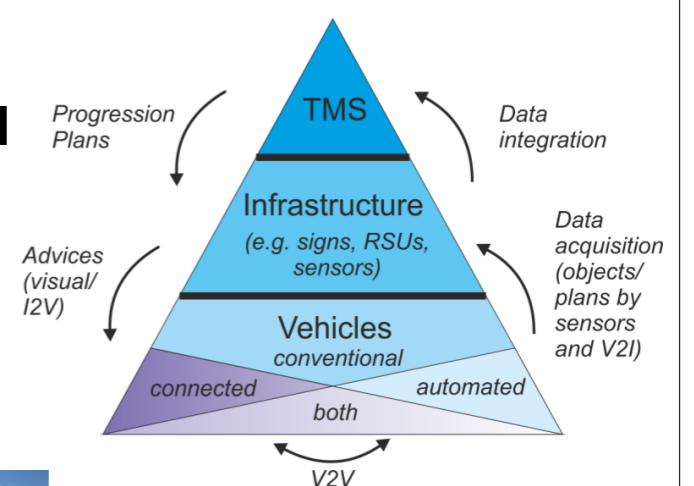
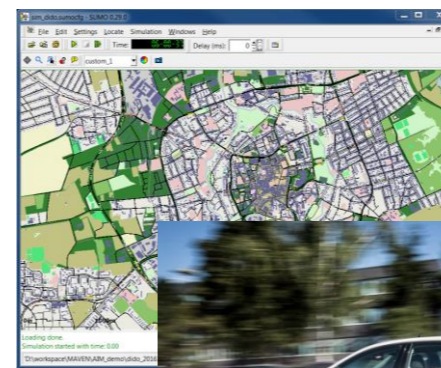
Project consortium:



Associated partners: Attikes Diadromes, Car2Car-Communication Consortium, DGT, ECTRI, EURECOM, Huawei, IKUSI, ITS Niedersachsen, Region of Central Macedonia, Rijkswaterstaat, TRL, University of Twente

Traffic management, methodology and foreseen use cases

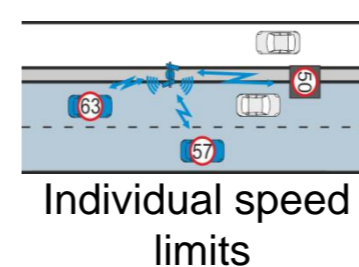
TransAID follows the approach of **hierarchical traffic management**.



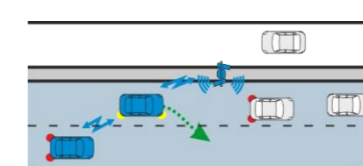
Simulations using SUMO, ns-3, and the iTETRIS Framework are performed.

New traffic management measures to enhance traffic efficiency and safety are being developed and implemented as real-world prototypes on the AIM reference track in Braunschweig, Germany.

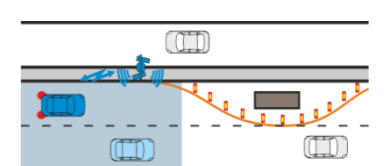
Examples of use cases:



Individual speed limits



Lane change advices



Support in complex situations

Collaboration opportunities

Projects:

- TransAID is cooperating with related EU-funded projects in the domain of cooperative and automated driving, such as:
 - MAVEN (hierarchical traffic management)
 - INFRAMIX (traffic flow modelling, simulation of automated vehicles)
 - CoExist (automation-ready framework for road authorities and traffic simulation tools)

Stakeholders:

- Stakeholder workshops are organised to get insight in the view of OEMs, cities, and road authorities for guidelines and roadmap creation.
- We welcome all stakeholders to be actively involved, especially OEMs, authorities, and end-users!

